Ultrafast Growth of Graphene Single Crystal

By
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Host: Assoc Prof Xiong Qihua

Abstract

Graphene single crystal has become as a promising material for next generation electronics and optoelectronics. Unfortunately we can’t grow 12-inch graphene single-crystal wafer as we can do in silicon industry. One of the main hamper is that we nowadays grow graphene single crystal very slow. In this talk I will introduce why we need to grow graphene faster and how fast we can achieve in our recently developed new technology [1].


Short Biography

Professor Dapeng Yu got his Bachelor degree of Science in 1982 from East-China University of Science and Technology, Shanghai, and Master degree in 1985 from Shanghai Institute of Ceramics, and PhD degree in 1993 from Laboratoire de Physique des Solides, Université Paris-sud, France.

D. P. Yu was promoted to full professor in 1999 in Peking University. He was then supported by the Outstanding Young Scientists Funding by NSFC in 2000. He was further sponsored by the Chang Kung Professorship in 2002 by Ministry of Education, China. In 2015, he was elected as the Academician of Chinese Academy of Sciences. Prof D. P. Yu is among the world leading positions in developing method to synthesize and characterize 1-dimensional semiconductor nanowires, and made important contributions to the investigations of nanowire materials.

His group has published more than 300 peer-reviewed papers in nanowire materials and physics. His work has been recognized by important awards such as the awards from the Ministry of Education for “1-D Nanostructured Materials and Physics”; 1st class, 2004, P. R. China, and the “National Natural Science Award” “1-D Nanostructured Materials and Physics”, 2nd class, P. R. China, 2007. He has mentored more than 60 graduates and postdoctoral associates.